

**WHAT IS CLAIMED:**

1. An automatic bean curd manufacturing apparatus comprising:
  - a main body provided with a bean grinding chamber and a bean juice heating chamber;
  - 5 a driving motor installed in the main body;
  - a rotational container removably and rotatably installed in the grinding chamber of the main body and provided at an inner bottom with a grinding blade;
  - rotation suppressing means for selectively suppressing a rotation of the rotational container, the rotation suppressing means being installed in the grinding
  - 10 chamber;
  - a clutch installed on a bottom of the rotational container to rotatably support the grinding blade, the clutch allowing only the grinding blade to rotate when the rotation of the rotational container is suppressed by the rotation suppressing means and allowing both the rotational container and the grinding blade to simultaneously rotate
  - 15 when the rotation of the rotational container is not suppressed by the rotation suppressing means;
  - a rotational container cover for closing an opened top of the rotational container;
  - a grinding container removably installed in the rotational container to grind the
  - 20 beans, the grinding blade installed on the bottom of the rotational container being located in the grinding container;
  - rotational container fixing means for preventing the rotational container from moving while rotatably supporting the rotational container, the rotational container fixing means being installed on an entrance of the grinding chamber of the main body;
  - 25 a heating container removably installed in the heating chamber to heat the bean juice dispensed from the rotational container through a bean juice guide; and
  - a heating container cover for closing an opened top of the heating container.
2. The automatic bean curd manufacturing apparatus according to claim 1,
- 30 wherein the rotational container is provided at an upper portion with a plurality of bean juice exhausting holes spaced away from each other, through which the bean juice

ascended in the rotational container by centrifugal force generated when the rotational container rotates is exhausted to an external side.

3. The automatic bean curd manufacturing apparatus according to claim 2,  
5 further comprising a bean juice guideencloses the upper portion of the rotational container in the grinding chamber to guide the bean juice dispensed from the rotational container to the heating container.

4. The automatic bean curd manufacturing apparatus according to claim 3,  
10 wherein the bean juice guide is provided at an inner circumference with a valley in which the bean juice dispensed from the rotational container stays and a bean juice exhausting channel extends from a portion of the bean juice guide to direct the bean juice collected in the valley to an external side.

15 5. The automatic bean curd manufacturing apparatus according to claim 1 , wherein the rotation suppressing means comprises a solenoid, and the rotational container is provided at a lower-outer side with an operation shaft insertion groove in which an operation shaft of the solenoid is inserted to suppress the rotation of the rotational container.

20

6. The automatic bean curd manufacturing apparatus according to claim 1 , further comprising a filtering container for filtering off residue from the bean juice dispensed and heated in the heating container, the filtering container being removably coupled on a bottom of the heating container cover.

25

7. The automatic bean curd manufacturing apparatus according to claim 6, wherein the heating container cover is provided at the bottom with a ring-shaped fixing part for removably fixing the filtering container.

8. The automatic bean curd manufacturing apparatus according to claim 7, wherein a guide for guiding the bean juice dispensed from the rotational container into the filtering container extends from the heating container cover.

5           9. The automatic bean curd manufacturing apparatus according to claim 6, wherein the filtering container is provided with a plurality of circular-shaped apertures each having a diameter of between about 0.08-0.22 mm.

10           10. The automatic bean curd manufacturing apparatus according to claim 1 further comprising: a water level measuring bar for measuring a bean juice level in the heating container, the water level measuring bar being mounted on a bottom of the heating container cover.

15           11. The automatic bean curd manufacturing apparatus according to claim 10 further comprising an operation start handle for locking the heating container inserted in the heating chamber, the operation start handle being mounted on a top of the main body.

20           12. The automatic bean curd manufacturing apparatus according to claim 11 further comprising an elevating shaft installed on a bottom of the operation start handle and a contact installed on the elevating shaft, wherein the contact is electrically connected with the water level measuring bar when the elevating shaft descends.

25           13. The automatic bean curd manufacturing apparatus according to claim 1 further comprising: a rotational pin installed on a central portion of the rotational container cover and rotatably supported on the rotational container fixing means.

          14. The automatic bean curd manufacturing apparatus according to claim 13, wherein the rotational shaft fixing means comprises:

30           an upper cover for closing an entrance of the grinding chamber, the rotational pin penetrating the upper cover; and

a fixing member having a central portion rotatably seated on a central portion of the upper cover and opposite ends removably fixed on the entrance of the grinding chamber to fix the upper cover, wherein the rotational pin penetrating the upper cover is rotatably inserted in the central portion of the fixing member.

5

15. The bean curd manufacturing apparatus of claim 1, further comprising a heating plate installed on a bottom of the heating chamber.

16. The automatic bean curd manufacturing apparatus of claim 1 wherein the  
10 grinding container has a plurality of oval-shaped apertures each having a longitudinal axis of between about 1.8-2.2 mm and a lateral axis of between about 0.4-0.6 mm.

17. An automatic bean curd manufacturing apparatus comprising:  
a main body provided with a bean grinding chamber and a bean juice heating  
15 chamber;

a rotational container removably and rotatably installed in the grinding chamber of the main body and provided at an inner bottom with a grinding blade;

rotation suppressing means for selectively suppressing a rotation of the rotational container, the rotation suppressing means being installed in the grinding  
20 chamber;

a clutch installed on a bottom of the rotational container to rotatably support the grinding blade, the clutch allowing only the grinding blade to rotate when the rotation of the rotational container is suppressed by the rotation suppressing means and allowing both the rotational container and the grinding blade to simultaneously rotate  
25 when the rotation of the rotational container is not suppressed by the rotation suppressing means;

a grinding container removably installed in the rotational container to grind the beans, the grinding blade installed on the bottom of the rotational container being located in the grinding container; and

30 a heating container removably installed in the heating chamber to heat the bean juice dispensed from the rotational container through a bean juice guide.

18. The automatic bean curd manufacturing apparatus according to claim 17,  
wherein the rotational container is provided at an upper portion with a plurality of bean  
juice exhausting holes spaced away from each other, through which the bean juice  
5 ascended in the rotational container by centrifugal force generated when the rotational  
container rotates is exhausted to an external side.

19. The automatic bean curd manufacturing apparatus according to claim 17,  
further comprising a filtering container for filtering off residue from the bean juice  
10 dispensed and heated in the heating container, the filtering container being removably  
coupled on a bottom of the heating container cover.

20. The automatic bean curd manufacturing apparatus according to claim 19,  
wherein the filtering container is provided with a plurality of circular-shaped apertures  
15 each having a diameter of between about 0.08-0.22 mm.